



CONSTRUCTION STORMWATER GENERAL PERMIT INSPECTION REPORT

State of Washington Department of Ecology

Section A: General Data

Ecology Inspector(s): Evan Wood Anne Baxter	On-Site Representative Name: Corey Kleppe Title: Phone: Email:	Inspection Date and Entry/Exit Time: March 7, 2022, 09:28/15:58	Inspection Type: Announced
		Receiving waters: Puyallup River	Permit webpage: https://apps.ecology.wa.gov/paris/FacilitySummary.aspx?FacilityId=70091

Section B: Background

The Electron Hydro LLC Intake project is covered under the State of Washington's Construction Stormwater General Permit (CSWGP). The CSWGP is a National Pollutant Discharge Elimination System (NPDES) and a State Waste Discharge permit for discharge of construction-related stormwater. The purpose of this inspection was to conduct a compliance inspection with Ecology's new staff, Evan Wood, to provide technical assistance as appropriate, and to continue to make site observations and have discussions regarding the water quality management plan (WQMP). The settling basin and forebay/laydown areas were also viewed, which are not within or near the CSWGP site, but has implications related to hydro operations and sediment management. Follow-up is occurring outside of the CSWGP.

Evan Wood and Anne Baxter met with Electron Hydro representative, Corey Kleppe, and Encore Environmental representative, Jeffrey Huber at the hydro office and drove separately to the Intake project, Settling Basin, and Forebay.

Settling Basin

At the settling basin, Evan, Anne, Jeff and Corey walked down to the 2020 landslide debris path and followed the creek conveying landslide sediment debris to the Puyallup. Electron discussed their plans for sediment stabilization along the hillside and timing/location of the turbidity monitoring which is a part of the WQMP. Anne recommended walking the entire length of the sediment pile to identify other seeps or streams that have the potential to undermine the structure and cause future landslides. The group walked back up to the settling basin to view a tributary which was discussed as a potential temperature monitoring location.

Forebay

During the 2022.01.27 inspection with Carol Serdar, Sheila Marcoe and Anne Baxter, Carol had indicated that the stormwater conveyance containing iron oxidizing bacteria and a sheen should be sampled and addressed. Anne and Evan followed-up on those discussions at the forebay location and asked Corey whether he had received the results from the lab and he said that he had not. Precautionary oil absorbent booms were placed at two culverts associated with stormwater conveyances. Anne and Evan walked the length of a couple of the conveyances along the maintenance shed and around the laydown yard up the hill from these conveyances to identify potential carbon sources used by the bacterial communities.

Ecology and Electron had discussions about the Administrative Order and WQMP. Corey requested that Ecology specify the amount of spillage that triggers a need for an ERTS to be submitted to Ecology and Anne told Corey that she would get back to him. He also mentioned that he felt that the 300ft turbidity monitoring location downstream of the penstocks didn't represent a well mixed area for turbidity determination and Anne said that she would look into incorporating the potential for additional sampling locations to be included into the WQMP. Ecology's request for additional sampling locations into the WQMP should the 300ft sampling location appear to be an unmixed sampling location.

Weather at time of inspection: 40's and Sunny

Precipitation in the past 24 hours?

- ☐ Yes
☒ No

Section C: Compliance**Inspection Checklist**

<u>Is the Permit Coverage Letter on-site?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Is a copy of the CSWGP on-site?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Is the Site Log Book Current?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Is the Site Log Book Adequate?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<u>Are Site Inspections Recorded?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Are Site Inspections Adequate?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Permittee has Prepared and Implemented a SWPPP?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Is the SWPPP Adequate?</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Violations and action required to achieve compliance**Complete or submit date****Guidance****S9.D.5 Stabilize Soils****Bare, unworked Stockpiles**

Failure to meet S9.D.5.a: The Permittee must stabilize exposed and unworked soils by application of effective BMPs that prevent erosion. Applicable BMPs include, but are not limited to: temporary and permanent seeding, sodding, mulching, plastic covering, erosion control fabrics and matting, soil application of polyacrylamide (PAM), the early application of gravel base on areas to be paved, and dust control.

Permittee must not allow soils to remain exposed and unworked for more than the time periods set forth below to prevent erosion:
 During the wet season (October 1 - April 30): **2 days** from the date of this inspection.

[C120](#), [C121](#), [C122](#),
[C123](#), [C124](#), [C125](#),
[C126](#), [C130](#), [C131](#),
[C140](#)

For assistance with any of these compliance issues or recommendations regarding BMPs, please see the 2019 Stormwater Management Manual for Western Washington (SWMMWW), Volume II, Construction Stormwater Pollution Prevention which includes BMPs for [Source Control](#) and [Runoff Conveyance and Treatment BMPs](#). The full SWMMWW is available at: <http://www.ecy.wa.gov/programs/wq/stormwater/manual.html>.

The Department of Ecology has the authority to issue formal enforcement actions including issuance of orders and civil penalties of up to \$10,000 per day per violation for violations of your NPDES permit and/or state laws and regulations.

Noncompliance with the limits, monitoring requirements, terms and/or conditions established in your permit may result in formal enforcement action by the Department of Ecology.

Ecology Inspector (signature): _____ Date: March 24, 2022
Ecology Inspector (print name): Evan Wood

Water Quality Program
Southwest Regional Office
PO Box 47775 Olympia, WA 98504-7775
SWRO Tel: 360-407-6300

All photos taken by Evan Wood

Photo 1

Photo Description: Displaced plastic exposing unworked stockpile at the Intake construction area



Date: Time: Lat: Long: Direction degrees:

Photo 2

Photo Description: Intake Construction area



Date: Time: Lat: Long: Direction degrees:

Photo 3

Photo Description: Flume at the Intake area



Date: Time: Lat: Long: Direction degrees:

Photo 4

Photo Description: : Intake Construction area



Date: Time: Lat: Long: Direction degrees:

Photo 5

Photo Description: Concrete washout area



Date: Time: Lat: Long: Direction degrees:

Photo 6

Photo Description: Intake construction area



Date: Time: Lat: Long: Direction degrees:

Photo 7

Photo Description: Project intake and Puyallup river



Date: Time: Lat: Long: Direction degrees:

Photo 8

Photo Description: Conveyance channel BMP at the Intake area



Date: Time: Lat: Long: Direction degrees:

Photo 9

Photo Description: Settling Basin area – photo of the head of the landslide with the creek/seep running from underneath.



Date: Time: Lat: Long: Direction degrees:

Photo 10

Photo Description: Settling Basin area – section of the landslide that has eroded away. This is a section where sediment deposits from the landslide have been carried downstream via a creek that empties into Puyallup River. Electron's stabilization and restoration ideas were discussed.



Date: Time: Lat: Long: Direction degrees:

Photo 11

Photo Description: : Settling Basin area – landslide sediments carried along the creek



Date: Time: Lat: Long: Direction degrees:

Photo 12

Photo Description: Settling Basin area – landslide sediments carried along the creek



Date: Time: Lat: Long: Direction degrees:

Photo 13

Photo Description: Settling Basin area – landslide sediments carried along the creek



Date: Time: Lat: Long: Direction degrees:

Photo 14

Photo Description: Settling Basin area – landslide sediments carried along the creek and over the embankment into the Puyallup River



Date: Time: Lat: Long: Direction degrees:

Photo 15

Photo Description: Settling Basin area – landslide sediments deposited onto the Puyallup riverbed



Date: Time: Lat: Long: Direction degrees:

Photo 16

Photo Description: Forebay area – Precautionary oil absorbent booms placed in the stormwater conveyances



Date: Time: Lat: Long: Direction degrees:

Photo 17

Photo Description: Forebay area – Precautionary oil absorbent booms placed in the stormwater conveyances



Date: Time: Lat: Long: Direction degrees:

Photo 18

Photo Description: Stormwater conveyance ditch discharge location at the forebay (bottom center of photo)



Date: Time: Lat: Long: Direction degrees:

Photo 19

Photo Description: Forebay area - Maintenance shed



Date: Time: Lat: Long: Direction degrees:

Photo 20

Photo Description: Forebay area - Maintenance shed -. We were following a conveyance flowing along under the white storage container and along the bottom of the hill in the (right of the photograph).



Date: Time: Lat: Long: Direction degrees:

Photo 21

Photo Description: Forebay area - Maintenance shed - Conveyance/drainage alongside the Maintenance Shed and fuel storage area. There were no orange biofilms along this conveyance. This conveyance leads to an underground connection with an oil water separator before discharging into the Forebay.



Date: Time: Lat: Long: Direction degrees:

Photo 22

Photo Description: Forebay area - Maintenance shed area



Date: Time: Lat: Long: Direction degrees:

Photo 23

Photo Description: Forebay area - fuel storage shed



Date: Time: Lat: Long: Direction degrees:

Photo 24

Photo Description: Forebay area - Maintenance shed - Underground Fuel storage area (center of photo)



Date: Time: Lat: Long: Direction degrees:

Photo 25

Photo Description: Forebay area - Maintenance shed fuel pump and Diesel leak/spillage



Date: Time: Lat: Long: Direction degrees:

Photo 26

Photo Description: Forebay area – Old fuel storage tanks located in the laydown area.



Date: Time: Lat: Long: Direction degrees:

Photo 27

Photo Description: Forebay area - Tributary emptying into the forebay (this tributary was discussed as a possible temperature monitoring location).



Date: Time: Lat: Long: Direction degrees:

Photo 28

Photo Description: Settling basin area - Tributary emptying into the Settling basin (this tributary was discussed as a possible temperature monitoring location).



Date: Time: Lat: Long: Direction degrees: